

U.S. Census Bureau
Metalworking Machinery - 2007
MQ333W(07)-5
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Address inquiries concerning these data to Investment Goods Industries Branch, U.S. Department of Commerce, Census Bureau, Manufacturing and Construction Division, Washington, DC 20233-6900, or call Rachel Horwitz, 301-763-2834.

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Table 1. Value of Shipments, Including Exports of Metalworking Machinery
by Class of Product: 2007
[Thousands of dollars]

Product code	Product description	2007	2006
	Metalworking machinery.....	3,318,208	3,094,478
	Metal cutting type 1/ 2/ 3/.....	2,533,389	2,293,813
333512A1	Boring and drilling machines	130,220	178,487
33351212	Gear cutting machines 1/.....	(D)	(D)
33351221	Grinding and polishing machines (except gear-tooth grinding, lapping, polishing, and buffing machines).....	237,928	259,063
33351231	Lathes 2/ 3/ 4/.....	375,871	295,651
33351241	Milling machines 2/ 5/.....	81,294	56,082
33351271	Machining centers (multifunction numerically controlled machines).....	807,425	703,045
33351281	Station type machines	104,283	79,153
33351291	Other metal cutting machine tools (except those designed primarily for home workshops, laboratories, etc.).....	585,522	464,779
3335126111	Remanufactured metal cutting machine tools.....	81,004	90,172
	Metal forming type 6/7/	784,819	800,665
33351311 pt.	Punching and shearing machines.....	147,876	130,126
33351311 pt.	Bending and forming machines.....	185,301	273,235
33351331	Presses (except forging) 6/.....	135,292	128,599
33351351	Other metal forming type machines 7/	209,309	228,880
3335137121	Remanufactured metal forming machine tools	10,382	15,081

D Withheld to avoid disclosing data for individual companies. pt. Part

1/Data for "Gear cutting machines" are included in total "Metal cutting type."

2/Data for "All lathes (turning machines) valued under \$3,025 each" and "All milling machines, valued at under \$3,025 each" are included in total "Metal cutting type."

3/Data for product code 3335123126, "Vertical NC turning machines" are included in total "Metal cutting type," but excluded from product code 33351231

4/Product code 33351231, "Lathes," excludes the values for product code 3335123131, "All lathes (turning machines) valued under \$3,025 each or more."

5/Product code 33351241, "Milling machines," excludes the value for product code 3335124101, "All Milling machines valued under \$3,025 each."

6/For 2007, data for product code 3335131136 "Press brakes, all types," is included in total "Metal forming type" but excluded from product code 33351311 "Bending and forming machines."

7/Data for product codes 3335133101 "All presses valued under \$3,025 each" and 3335135101 "All other metal forming type machine tools valued at under \$3,025 each," are included in total "Metal forming type," but excluded from product codes 33351331 and 33351351 respectively.

Table 2. Total Shipments and Unfilled Orders
(Quantity in units; value in thousands of dollars)

		2007				2006			
Product code	Product description	No. of cos.	Total shipments		Unfilled orders (value)	Total shipments		Unfilled orders (value)	
			Quantity	Value		Quantity	Value		
	Metalworking machinery.....	(X)	130,745	3,318,208	1,433,996	129,114	3,094,478	1,233,717	
	Total metal cutting type machine tools.....	(X)	79,969	2,533,389	1,079,748	83,784	2,293,813	891,893	
	Total metal forming type machine tools.....	(X)	50,776	784,819	354,248	45,330	800,665	341,824	
	Metal cutting type machine tools valued at \$3,025 each or more 1/ 2/ 3/ 4/ 5/.....	(X)	32,163	2,405,834	1,023,117	30,747	2,162,048	845,112	
	Metal cutting type machine tools valued under \$3,025 6/ 7/ 8/	(X)	46,999	46,551	943	52,154	41,593	498	
333512A1	Boring and drilling machines 4/.....	32	7,734	130,220	52,512	8,709	178,487	48,288	
	Boring machines valued at \$3,025 each or more:								
333512A103	Horizontal boring, drilling, and milling machines, including floor, table, rail mounted, and all other nonprecision boring machines (except boring lathes)	7	(D)	(D)	(D)	(D)	(D)	(D)	
333512A105	Precision and jig boring machines, including horizontal and vertical machines	2	(D)	(D)	(D)	(D)	(D)	(D)	
333512A111	All drilling machines valued under \$3,025 each 3/.....	8	6,151	6,426	(D)	6,354	7,494	83	
	Drilling machines valued at \$3,025 each or more:								
333512A113	Vertical upright drilling machines, including plain upright and heavy duty	2	(D)	(D)	(D)	(D)	(D)	(D)	
333512A117	Deep hole drilling machines	5	(D)	(D)	(D)	(D)	(D)	(D)	
333512A120	Multiple spindle drilling machines.....	7	201	c/ 10,874	1,207	c/ 262	b/ 12,348	(D)	
333512A123	All other drilling machines.....	4	(D)	(D)	(X)	(D)	(D)	(X)	
3335121200	Gear cutting machines, including gear hobbers, shapers, teeth finishing, bevel gear generators, and all other gear cutting machines 1/	3	(D)	(D)	c/ 90,727	(D)	(D)	69,489	
33351221	Grinding, polishing, buffing, honing, and								

3335122101	lapping machines 6/.....	56	24,381		237,928	a/	188,102	30,879		259,063	133,434
	All grinding, polishing, buffing, honing, and lapping machines valued under \$3,025 each 6/.....	13	22,242	a/	25,885		(D)	28,248	a/	17,359	c/ 130
	All grinding, polishing, buffing, honing, and lapping machines valued at \$3,025 each or more:										
3335122110	External cylindrical grinding machines.....	10	422		55,584		38,978	b/	686		73,108 35,538
3335122120	Internal cylindrical grinding machines	2	(D)		(D)		(D)		(D)		(D)
3335122122	Surface grinding machines	6	457	b/	12,096		(D)	b/	502	b/	12,051 (D)
3335122136	All other disc grinders, including bench, floor, snag, double spindle grinders, and abrasive belt grinders	3	(D)		(D)		6,369		(D)		(D)
3335122142	Tool, cutter, and drill point grinding machines	11	336		61,325		10,702		381		66,646 (D)
3335122151	All other grinding machines, including planer type, and thread grinding machines	9	312	a/	22,990	c/	22,204		373		25,104 a/ 11,810
3335122156	Honing and lapping machines (except flat surface lapping machines), internal, including combination bore, hone, and external	5	(D)		(D)		(D)		(D)		(D)
3335122161	Flat surface lapping machines (except gear lapping)	3	(D)		(D)		(D)		(D)		(D)
3335122166	Polishing and buffing machines, including speed lathes and multistation type	10	(D)		(D)		(D)		(D)		18,529
33351231	Lathes 2/ 4/ 7/.....	(X)	6,210		375,871		42,658		5,769		295,651 50,185
	Numerically controlled:										
	Horizontal.....	7	5,616		339,375		42,190		5,088		288,195 49,355
	Single spindle NC turning machines:										
3335123107	Chuck sizes less than 10 inches	5	3,327		145,881		(D)		3,103		135,307 16,143
3335123116	Chuck sizes from 10 inches but less than 15 inches	5	(D)		(D)		(D)		(D)		(D)
3335123127	Chuck sizes 15 inches and over and multiple spindle NC turning machines.....	3	(D)		(D)		(D)		(D)		(D)
3335123126	Vertical NC turning machines 2/.....	4	(D)		(D)		(D)		(D)		(D)
3335123131	All lathes (turning machines) valued under \$3,025 each 7/.....	2	(D)		(D)		(D)		(D)		(X)
3335123134	All nonnumerically controlled lathes (turning machines) valued at \$3,025 each or more 4/.....	7	563	b/	6,138		(D)	c/	681	b/	7,456 (D)
33351241	Milling machines 5/7/.....	9	1,512		81,294		70,627	a/	1,388	a/	56,082 (D)
3335124101	All milling machines valued under \$3,025 each 7/.....	1	(D)		(D)		(X)		(D)		(D) (X)

3335124125	All milling machines valued at \$3,025 or more 5/.....	8	1,512	81,294	70,627	1,388	a/	56,082	(D)
33351271	Machining centers.....	12	11,517	807,425	226,574	10,767		703,045	283,390
	Drill, mill, and bore, vertical (automatic tool change):								
3335127101	Y-axis travel less than 20 inches	4	(D)	(D)	(D)	(D)		(D)	(D)
3335127106	Y-axis travel 20 inches through 26 inches	7	4,261	300,847	43,266	3,894		287,304	43,393
3335127111	Y-axis travel over 26 inches	5	1,181	a/ 129,832	52,443	a/ 959	a/	104,869	43,900
	Drill, mill, and bore, horizontal (automatic tool change):								
3335127112	Under 500mm pallet and smaller	4	(D)	(D)	(D)	a/ 212	a/	26,492	(D)
3335127113	500 to 800mm pallet	4	(D)	(D)	(D)	(D)		(D)	14,601
3335127114	Over 800mm pallet	4	(D)	(D)	33,734	(D)		(D)	a/ 43,457
3335127146	All other machining centers, including special machining, special adapting of standard machining and machining centers with indexing turret	3	(D)	(D)	(D)	(D)		(D)	(D)
33351281	Station type machines 3/.....	7	125	104,283	179,040	71		79,153	(D)
3335128101	Dial or rotary, trunnion, and center column	4	(D)	(D)	(D)	(D)		(D)	(D)
3335128106	Transfer	4	(D)	(D)	(D)	(D)		(D)	22,656
3335128111	Other station type	1	(D)	(D)	(D)	(D)		(D)	(D)
33351291	Other metal cutting machine tools 8/.....	51	25,483	585,522	a/ 118,898	23,218		464,779	97,353
3335129101	Other metal cutting machine tools, valued under \$3,025 8/.....	12	16,610	b/ 12,824	c/ 496	b/ 15,711	b/	15,425	(D)
	Other metal cutting machine tools, valued at \$3,025 each or more:								
3335129106	Broaching machines	6	42	b/ 5,725	b/ 1,536	b/ 49	a/	7,727	c/ 3,851
	Sawing and cutoff machines:								
	Band saws								
3335129122	Horizontal	7	(D)	(D)	(D)	1,126		17,603	(D)
3335129123	Vertical	5	1,049	20,822	(D)	1,232		21,515	(D)
3335129126	All other sawing and cutoff machines	10	(D)	(D)	b/ 2,575	617		22,820	b/ 4,690
3335129131	Spark erosion, ultrasonic, and electrolytic machines, all types	1	(D)	(D)	(D)	(D)		(D)	(D)
3335129136	Miscellaneous metal cutting machine tools	24	6,025	495,409	a/ 99,547	(D)		(D)	75,588
3335126111	Remanufactured metal cutting machine tools	16	807	b/ 81,004	b/ 55,688	c/ 883	b/	90,172	b/ 46,283
	Metal forming type machine tools valued at \$3,025 or more	(X)	13,556	749,748	348,686	13,332		756,124	336,671
	Metal forming type machine tools valued under								

	\$3,025 9/.....	(X)	37,124		24,689		614		31,903		29,460		424
33351311	Punching, shearing, bending, and forming machines	59	12,628		409,791		191,969		12,330		403,361		152,847
3335131101	All punching and shearing machines valued under \$3,025 each	8	1,119		1,395	b/	103	a/	1,249		1,439		104
	All punching and shearing machines valued at \$3,025 each or more:												
	Power operated only:												
3335131106	Punches, including combination punching and shearing machines	15	4,514		63,294		2,847	a/	3,783	a/	44,840		2,559
3335131111	Punching machines fixed position and two axes positioning table	3	184		49,663		17,436		201		53,637		9,574
	Plate shearing machines:												
3335131116	Mechanical	3	(D)		(D)		(D)		(D)		(D)		(D)
3335131121	Hydraulic	9	1,010		19,291		3,811		966		17,356		6,254
3335131126	Other power operated punching and shearing machines	4	(D)		(D)		(D)		(D)		(D)		(D)
3335131131	All bending and forming machines, power operated valued at under \$3,025 each	6	1,574		3,249		54		1,635		3,277		141
	All bending and forming machines, power operated valued at \$3,025 each or more:												
3335131136	Press brakes, all types	7	(D)		(D)		20,285		674		67,295		19,803
3335131145	Roll bending machines including sheet, plate, angles, bars, shapes and tubes, and rotary bending and forming machines, including rotary head.....	15	812		89,293		97,633	b/	915		96,990		72,763
3335131161	Other bending and forming machines, including folders and slide bending machines	16	2,506	a/	92,759		47,709	a/	2,543		105,673		39,211
33351331	Presses (except forging) 9/.....	31	1,747	a/	135,292		82,405	b/	1,876		128,599		78,153
3335133101	All presses valued under \$3,025 each 9/.....	6	(D)		(D)		(D)		(D)		(D)		(D)
	All presses valued at \$3,025 each or more:												
3335133109	Mechanical presses: Gap or C-frame.....	4	(D)		(D)		(D)		(D)		(D)		109
3335133136	Automatic presses, strip or coil fed	6	(D)		(D)		15,279	a/	179		64,653		17,358
3335133143	Vertical, automatic, and all other mechanical presses.....	4	(D)		(D)		29,993		(D)		(D)		(D)
	Hydraulic presses:												
	Vertical single action, all tonnages:												
3335133146	Housing or straight side type	3	(D)		(D)		(D)		(D)		(D)		(D)
3335133151	Column type (open rod)	5	(D)		(D)		16,214		(D)		(D)		(D)
	Gap or C-frame:												
3335133156	15 tons and under	5	177		2,917		(D)		224		4,045		129
3335133161	16 tons to 35 tons	4	(D)		(D)		1,356		62		2,947		(D)

3335133166	Over 35 tons	5	(D)	(D)	b/	1,821	68	4,626	c/	1,021			
3335133171	Other hydraulic and pneumatic presses, including horizontal	8	1,122	b/	20,796	a/	12,428	c/	1,147	b/	22,741	8,490	
33351351	All other metal forming type machine tools 9/.....	31	1,874		209,309		74,469	2,010	a/	228,880	b/	105,916	
3335135101	All other metal forming type machine tools valued under \$3,025 each 9/.....	5	(D)		(D)		(D)	(D)		(D)		(D)	
	All other metal forming type machine tools valued at \$3,025 each or more:												
3335135118	Forging machines, including forging presses and die stamping presses, and die casting machines, all types.....	6	(D)		(D)		(D)	(D)		(D)		(D)	
3335135121	Riveting machines	5	(D)		(D)		(D)	(D)		(D)		(D)	
3335135126	All other metal forming type machine tools	18	1,211		157,948		73,721	(D)		(D)		79,308	
3335137121	Remanufactured metal forming machine tools.....	8	96	a/	10,382	c/	4,948	a/	95	b/	15,081	b/	4,729

D Withheld to avoid disclosing data for individual companies. X Not applicable

1/Product code 3335121200 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more"

2/Product code 3335123126 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more," but excluded from product class 33351231.

3/"Unfilled orders (value)" for product class 33351281 for 2006 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more" to avoid disclosing data for individual companies.

4/"Unfilled orders (value)" for product code 3335123134 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more," but excluded from product classes 33351231.

5/"Unfilled order (value)" for product code 3335124125 for 2006 is included in the total for "Metal cutting type machine tools valued at \$3,025 each or more," but excluded from product class 33351241.

6/"Unfilled orders (value)" for product code 3335122101 for 2007 is included in the total for "Metal cutting type machine tools valued under \$3,025," but excluded from product class 33351221.

7/Product codes 3335123131 and 3335124101 are included in the total for "Metal cutting type machine tools valued under \$3,025," but excluded from product class 33351231 and 33351241, respectively.

8/"Unfilled orders (value)" for product code 3335129101 for 2006 is included in the total for "Metal cutting type machine tools valued under \$3,025," but excluded from product class 33351291.

9/Product codes 3335133101 and 3335135101 are included in the total for "Metal forming type machine tools valued under \$3,025," but excluded from product classes 33351331 and 33351351, respectively.

Note: This report includes complete machines only. Percent of estimation of each item is indicated as follows: a/16 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Shipments of Numerically Controlled Machines and Exports: 2007 and 2006
[Quantity in units. Value in thousands of dollars]

Product description	2007			2006		
	Shipments of numerically con- trolled machines	Export shipments (value) 1/		Shipments of numerically con- trolled machines	Export shipments (value) 1/	
	Quantity	Value		Quantity	Value	
Metalworking machinery.....	22,639	2,237,513	938,056	22,328	1,996,636	783,601
Metal cutting type machine tools 2/.....	21,643	1,992,233	705,200	21,518	1,789,350	580,151
Boring and drilling machines 2/.....	(D)	(D)	(D)	(D)	(D)	(D)
Gear cutting machines 2/.....	(D)	(D)	(D)	(D)	(D)	(D)
Grinding, polishing, buffing, and lapping machines	495	105,318	44,834	585	125,115	42,903
Valued under \$3,025 each, external cylindrical grinding machines (plain and universal), and surface grinding machines, all types	(D)	(D)	(D)	(D)	(D)	(D)
Honing, lapping, polishing and buffing machines	(D)	(D)	(D)	(D)	(D)	(D)
Horizontal NC turning machines, valued at \$3,025 or each or more	5,592	338,946	115,275	5,088	288,195	87,322
Single spindle NC turning machines:						
Chuck sizes less than 10 inches	3,327	145,881	(D)	3,103	135,307	(D)
Chuck sizes over 10 inches but less than 15 inches	(D)	(D)	(D)	(D)	(D)	(D)
Chuck sizes 15 inches and over and multiple spindle	(D)	(D)	(D)	(D)	(D)	(D)
Vertical NC turning machines, valued at \$3,025 each or more 2/.....	(D)	(D)	(D)	(D)	(D)	(D)
Nonnumerically controlled turning machines, valued at \$3,025 or more 2/.....	(X)	(X)	(D)	(X)	(X)	(D)
Milling machines 2/.....	735	70,999	(D)	1,363	55,351	(D)
Machining centers 3/4/.....	11,516	798,001	(D)	10,767	703,045	(D)
Drill, mill and bore, vertical (automatic tool change) 3/4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Y-axis travel less than 20 inches 3/4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Y-axis travel 20 inches through 26 inches	4,261	300,847	107,733	3,894	287,304	83,463
Y-axis travel over 26 inches 4/.....	1,181	129,832	(D)	959	104,869	(D)
Drill, mill and bore, horizontal (automatic tool change) 3/4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Under 500mm pallet 4/.....	(D)	(D)	(D)	284	34,960	(D)
500mm-800mm pallet 3/4/.....	(D)	(D)	(D)	(D)	(D)	(D)
Over 800mm pallet 3/4/.....	(D)	(D)	(D)	(D)	(D)	(D)
All other machining centers 3/.....	(D)	(D)	(X)	(D)	(D)	(X)
Station type machines, and other metal cutting machine tools	2,090	418,608	146,914	1,762	320,734	108,667
Remanufactured metal cutting machines 2/.....	(D)	(D)	(D)	(D)	(D)	(D)
Metal forming type machine tools 5/.....	996	245,280	232,856	810	207,286	203,450
Punching, shearing, bending, and forming machines	783	126,877	76,501	655	128,249	77,225
Punching and shearing machines	362	54,879	29,926	224	56,266	24,210
All bending and forming machines, power operated	421	71,998	46,575	431	71,983	53,015
Presses (except forgings) 5/.....	(D)	(D)	(D)	(D)	(D)	(D)
All other metal forming type machine tools 5/	(D)	(D)	(D)	(D)	(D)	(D)
Remanufactured metal forming machines 5/	(D)	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies. X Not applicable.

1/Data includes the value of all types of machines exported, as reported by MQ333W survey panel.

2/Data were included in total "Metal cutting type machine tools."

3/Data were included in total "Machining centers."

4/Export (value) data were included in "Metal cutting type machine tools."

5/Data were included in total "Metal forming type machine tools."

Table 4. Shipments, Exports, and Imports of Metalworking Machinery: 2007 and 2006
[Quantity in units. Value in thousands of dollars]

Product description	Manufacturers' shipments		Exports of domestic merchandise 1/2/		Imports for consumption 1/3/	
	Quantity	Value	Quantity	Value at port	Quantity	Value 4/
2007						
Boring and drilling machines, excluding multifunction NC machines, machining centers:						
Boring machines valued at \$3,025 each or more.....	(D)	(D)	425	13,453	1,170	85,879
Drilling machines:						
Valued under \$3,025 each.....	6,151	6,426	12,495	9,726	124,379	19,411
Valued at \$3,025 each or more	(D)	(D)	2,185	56,973	1,698	91,446
Gear cutting machines	(D)	(D)	4,420	36,369	431	124,033
Grinding, polishing, buffing, honing, and lapping machinery (except gear tooth grinding, lapping, polishing, and buffing machines):						
Valued under \$3,025 each.....	22,242	25,885	80,378	20,966	754,890	28,527
Valued at \$3,025 each or more	2,139	212,043	2,940	116,478	5,685	322,394
Lathes (turning machines) under \$3,025.....	(D)	(D)	6,815	6,111	17,494	13,127
Horizontal NC turning machines.....	5,616	339,375	635	78,390	7,996	890,995
Vertical NC turning machines.....	(D)	(D)	168	18,742	573	130,877
Nonnumerically controlled turning machines.....	563	6,138	1,625	57,383	4,862	81,284
Milling machines:						
Valued under \$3,025 each.....	(D)	(D)	2,700	4,919	10,781	9,130
Valued at \$3,025 each or more.....	1,512	81,294	1,190	35,905	5,486	158,443
Machining centers (multifunction NC machines).....	11,517	807,425	2,755	288,736	6,397	1,070,954
Drill, mill, and bore, vertical (automatic tool change):						
Y-axis travel less than 20 inches and 20 inches through 26 inches.....	(D)	(D)	2,235	231,657	3,413	306,093
Y-axis travel 26 inches and over.....	1,181	129,832	361	44,282	728	145,662
Drill, mill, and bore, horizontal (automatic tool change)	(D)	(D)	-	-	2,075	552,993
Other machining centers	(D)	(D)	159	12,797	181	66,205
Station type machines	125	104,283	-	-	416	116,812
Other metal cutting machine tools:						
Valued under \$3,025 each.....	16,610	12,824	(NA)	(NA)	(NA)	(NA)
Valued at \$3,025 each or more.....	8,873	572,698	6,609	178,229	10,070	440,548
Punching and shearing machines:						
Valued under \$3,025 each.....	1,119	1,395	21,647	13,638	12,271	4,133
Valued at \$3,025 each or more.....	(D)	(D)	2,707	105,828	2,648	173,619
Bending and forming machines:						
Valued under \$3,025 each.....	1,574	3,249	34,726	18,235	130,483	19,539
Valued at \$3,025 each or more.....	(D)	(D)	3,931	83,133	4,362	192,656
Presses (except forging presses).....	1,747	135,292	13,509	71,539	36,822	132,208
All other metal forming type machine tools:						
Valued under \$3,025 each.....	(D)	(D)	(NA)	(NA)	(NA)	(NA)
Machines valued at \$3,025 each or more:						
Forging machines, including forging presses and die stamping presses, and die casting machines, all types.....	(D)	(D)	893	77,434	5,173	177,902
Other metal forming machines	1,211	157,948	(NA)	(NA)	(NA)	(NA)

2006

Boring and drilling machines, excluding multifunction NC machines, machining centers:

Boring machines valued at \$3,025 each or more.....	(D)	(D)	453	23,546	1,194	104,730
Drilling machines:						
Valued under \$3,025 each.....	6,354	7,494	10,527	8,613	167,447	21,674
Valued at \$3,025 each or more	(D)	(D)	980	28,941	1,564	134,221
Gear cutting machines	(D)	(D)	70,359	63,503	393	123,183
Grinding, polishing, buffing, honing, and lapping machinery (except gear tooth grinding, lapping, polishing, and buffing machines):						
Valued under \$3,025 each.....	28,248	17,359	75,222	14,301	858,575	29,831
Valued at \$3,025 each or more	2,631	241,704	2,298	94,830	5,823	376,012
Lathes (turning machines) under \$3,025.....	(D)	(D)	3,284	4,021	17,578	14,032
Horizontal NC turning machines.....	5,088	288,195	704	77,230	7,909	886,625
Vertical NC turning machines.....	(D)	(D)	213	29,941	489	113,640
Nonnumerically controlled turning machines.....	681	7,456	2,101	64,654	4,351	75,913
Milling machines:						
Valued under \$3,025 each.....	(D)	(D)	4,954	7,973	11,820	8,862
Valued at \$3,025 each or more.....	1,388	56,082	1,840	50,271	4,983	148,349
Machining centers (multifunction NC machines).....	10,767	703,045	2,193	261,303	5,964	1,013,414
Drill, mill, and bore, vertical (automatic tool change):						
Y-axis travel less than 20 inches and 20 inches through 26 inches.....	(D)	(D)	1,615	189,068	3,294	311,060
Y-axis travel 26 inches and over.....	959	104,869	256	31,348	678	128,593
Drill, mill, and bore, horizontal (automatic tool change)	(D)	(D)	-	-	1,782	502,357
Other machining centers	(D)	(D)	322	40,887	210	71,404
Station type machines	71	79,153	121	34,217	921	194,747
Other metal cutting machine tools:						
Valued under \$3,025 each.....	15,711	15,425	(NA)	(NA)	(NA)	(NA)
Valued at \$3,025 each or more.....	7,507	449,354	15,156	513,804	8,405	509,335
Punching and shearing machines:						
Valued under \$3,025 each.....	1,249	1,439	67,357	11,323	12,205	4,599
Valued at \$3,025 each or more.....	(D)	(D)	1,742	69,743	2,359	148,922
Bending and forming machines:						
Valued under \$3,025 each.....	1,635	3,277	16,548	12,953	96,106	14,476
Valued at \$3,025 each or more.....	4,132	269,958	6,142	167,356	11,242	354,844
Presses (except forging presses).....	1,876	128,599	22,346	94,109	14,480	156,627
All other metal forming type machine tools:						
Valued under \$3,025 each.....	(D)	(D)	(NA)	(NA)	(NA)	(NA)
Machines valued at \$3,025 each or more:						
Forging machines, including forging presses and die stamping presses, and die casting machines, all types.....	(D)	(D)	1,280	84,503	24,421	242,349
Other metal forming machines	(D)	(D)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies. - Represents zero. NA Not available.
X Not applicable.

1/For a comparison of North American Industry Classification System (NAICS)-based product codes, Schedule B export codes, and HTSUSA import codes, see Table 5.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. General Imports for Consumption.

4/Dollar value represents the c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 5. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2007

Product code	Product description	Export Code 1/	Import Code 2/
	Boring machines, excluding multifunction NC machines, machining centers:		
	Machines valued at \$3,025 each or more:		
333512A103	Horizontal boring, drilling, and milling machines, including floor, table and rail mounted, and all other boring machines (except boring lathes)	8459.31.0010 8459.31.0040 8459.31.0070 8459.39.0040 8459.39.0050 8459.40.0040 8459.40.0050 8459.40.0070 8459.40.0080	8459.31.0010 8459.31.0040 8459.31.0070 8459.39.0040 8459.39.0050 8459.40.0040 8459.40.0050 8459.40.0070 8459.40.0080
333512A105	Precision and jig boring machines, including horizontal, vertical, and all other precision boring machines	8459.10.0000	8459.10.0000
	Drilling machines, excluding machining centers:		
333512A111	All drilling machines valued under \$3,025 each	8459.29.0020	8459.29.0020
	Machines valued at \$3,025 each or more:		
333512A113	Vertical, upright drilling machines, including plain upright and heavy duty	8459.29.0070	8459.29.0070
333512A120	Multiple spindle drilling machines (cluster of spindles driven from one central power unit):	8459.29.0040	8459.29.0040
333512A117	Deep hole drilling machines	8459.21.0080	8459.21.0080
333512A123	All other drilling machines, including bench type sensitive vertical and radial	8459.29.0050 8459.29.0090 8461.40.1050	8459.29.0050 8459.29.0090 8461.40.1020
3335121100	Gear cutting machines, including gear hobbers, shapers, teeth finishing, bevel gear generators, and all other gear cutting machines	8461.40.1070 8461.40.1090 8461.40.5040 8461.40.5060	8461.40.1030 8461.40.1040 8461.40.1060 8461.40.5040 8461.40.5050 8461.40.5070
	Grinding, polishing, buffing, honing, and lapping machinery (except gear tooth grinding, lapping, polishing, and buffing machines):		
3335122101	All grinding, polishing, buffing, honing, and lapping machines valued under \$3,025 each	8460.39.0020 8460.40.0020 8460.90.0020	8460.39.0020 8460.40.8020 8460.90.8020
	Machines valued at \$3,025 each or more:		
3335122110	External cylindrical grinding machines	8460.21.0080 8460.29.0010	8460.21.0080 8460.29.0010
3335122120	Internal cylindrical grinding machines	8460.29.0030	8460.29.0030
3335122136	All other disc grinders, including bench, floor, snag, double spindle grinders, and abrasive belt grinders	8460.29.0050	8460.29.0050
3335122151	All other grinding machines, including planer type, and thread grinding machines		
3335122122	Surface grinding machines	8460.11.0080 8460.19.0010 8460.19.0050	8460.11.0080 8460.19.0010 8460.19.0050

3335122142	Tool, cutter, and drill point grinding machines, including universal and special	8460.31.0080	8460.31.0080
	Honing and lapping machines (except gear honing and lapping):		
3335122156	Internal, including combination bore, hone, and external (except flat surface lapping machines)	8460.40.0060	8460.40.4060
3335122161	Flat surface lapping machines (except gear lapping)	8460.40.0080	8460.40.8080
3335122166	Polishing and buffing machines (including speed lathes and multistation type)	8460.90.0060	8460.90.4060
	Lathes (turning machines):		
3335123131	All lathes valued under \$3,025 each	8460.90.0080	8460.90.8080
		8458.19.0020	8458.19.0020
		8458.99.5060	8458.99.5060
	Machines valued at \$3,025 each or more:		
	Horizontal spindle:		
	Single spindle NC turning machine:		
3335123107	Chuck sizes less than 10"	8458.11.0050	8458.11.0050
3335123116	Chuck sizes from 10" but less than 15"	8458.11.0090	8458.11.0090
3335123127	Chuck sizes 15" and over, and multiple spindle NC turning machines	8458.11.0010	8458.11.0010
3335123126	Vertical spindle	8458.91.1060	8458.91.1060
		8458.91.1080	8458.91.1080
		8458.91.5050	8458.91.5050
		8458.91.5070	8458.91.5070
	Nonnumerically controlled turning machines valued at \$3,025 each or more		
3335123134		8458.19.0030	8458.19.0030
		8458.19.0050	8458.19.0050
		8458.19.0070	8458.19.0070
		8458.19.0090	8458.19.0090
		8458.99.1050	8458.99.1050
		8458.99.5090	8458.99.5090
	Milling machines, excluding machining centers:		
3335124101	All milling machines valued under \$3,025 each	8459.59.0020	8459.59.0020
		8459.69.0020	8459.69.0020
3335124125	All milling machines valued at \$3,025 each or more	8459.51.0080	8459.51.0080
		8459.59.0030	8459.59.0030
		8459.61.0080	8459.61.0080
		8459.69.0050	8459.69.0050
		8459.69.0070	8459.69.0070
		8459.69.0090	8459.69.0090
	Machining centers (multifunctions NC machines):		
	Drill, mill, and bore, vertical (automatic tool change):		
3335127101	Y-axis travel less than 20"	8457.10.0015	8457.10.0015
3335127106	Y-axis travel 20" through 26"		
3335127111	Y-axis travel over 26"	8457.10.0025	8457.10.0025
	Machining centers (multifunctions NC machines) - Cont.:		
	Drill, mill, and bore, horizontal (automatic tool change):		
3335127112	Under 500mm pallet	8457.10.0036	8457.10.0055
3335127113	500mm-800mm pallet	8457.10.0039	8457.10.0060
3335127114	Over 800mm pallet		8457.10.0065
			8457.10.0070
3335127146	All other machining centers, including special machining centers, special adapting of standard machining centers, and machining centers with indexing turret	8457.10.0045	8457.10.0075
	Station type machines:		
3335128101	Dial or rotary, trunnion, and center column	8457.20.0010	8457.20.0010

3335128106	Transfer (free, palletized shuttle)	8457.20.0090	8457.20.0090
3335128111	Other station type	8457.30.0010	8457.30.0010
		8457.30.0090	8457.30.0090
	Other metal cutting machine tools:		
		8459.70.0060	8459.70.8060
3335129101	Other metal cutting machine tools, valued under \$3,025	8461.20.0070	8461.20.8070
		8461.30.0040	8461.30.8040
		8461.50.0020	8461.50.8020
		8461.90.6020	8461.90.6020
		8461.90.6050	8461.90.6050
	Machines valued at \$3,025 each or more:		
3335129106	Broaching machines, including internal surface and all other broaching machines	8461.30.0060	8461.30.4060
		8461.30.0080	8461.30.8080
	Sawing and cutoff machines:		
3335129122	Band saws - vertical	8461.50.0050	8461.50.4050
3335129123	Band saws - horizontal	8461.50.0090	8461.50.8090
3335129126	All other sawing and cutoff machines		
3335129131	Spark erosion, ultrasonic and electrolytic machines all types	8456.20.0000	8456.20.1010
		8456.30.0000	8456.20.1050
		8456.90.3000	8456.30.1020
			8456.30.1050
			8456.30.1070
			8456.90.3000
3335129136	Miscellaneous metal cutting machine tools, including rifling, centering, keyseating, pointing, chemfering, facing, shaving, grooving, countersinking, burring, reaming, screw and nut slotting machines, threading planers, and shapers	8456.10.0002	8456.10.1010
		8459.70.0020	8456.10.1020
		8459.70.0080	8459.70.4000
		8461.20.0010	8459.70.8080
		8461.20.4000	8461.20.4000
		8461.90.3040	8461.20.8090
		8461.90.3080	8461.90.3040
		8461.90.6030	8461.90.3080
		8461.90.6090	8461.90.6030
			8461.90.6090
	Punching and shearing machines:		
3335131101	All punching and shearing machines valued under \$3,025 each	8462.39.0020	8462.39.0020
		8462.49.0020	8462.49.0020
	Machines valued at \$3,025 or more:		
	Power operated only:		
	Plate shearing machines (squaring, slitting, etc.):		
3335131106	Punches, including combination punching and shearing machines	8462.39.0050	8462.39.0050
		8462.41.0080	8462.41.0080
3335131111	Punching machines fixed position and two axes positioning table		
		8462.49.0050	8462.49.0050
3335131116	Mechanical		
3335131121	Hydraulic	8462.31.0080	8462.31.0080
3335131126	Other power operated punching & shearing machines		
	Bending and forming machines:		
3335131131	All bending and forming machines valued under \$3,025	8462.29.0020	8462.29.0020
	Machines valued at \$3,025 each or more:		
3335131136	Press brakes all types	8462.29.0030	8462.29.0030
3335131145	Roll bending machines, including sheet, plate, angles, bars, shapes, and tubes, and rotary bending and forming machines, including rotary head	8462.29.0040	8462.29.0040
		8462.29.0050	8462.29.0050
3335131161	Other bending and forming machines, including folders		

Presses except forging presses:			
3335133101	All presses valued under \$3,025 each	8462.99.0020	8462.99.8020
Machines valued at \$3,025 each or more:			
3335133109	Mechanical presses: Gap or C-frame	8462.99.0030	8462.99.4030
		8462.99.0040	8462.99.8045
Vertical straight sided and arch frame, excluding knuckle joint, including cam and crank: Single action:			
3335133136	Automatic presses, strip or coil field	8462.99.0060	8462.99.8060
3335133143	Vertical, automatic, and other mechanical presses, including end wheel type bulldozer, double and triple action, and transfer fed presses, four point and knuckle joint, excluding automated lines of standard equipment		
Hydraulic presses (metalworking only)			
Vertical single action, all tonnages			
3335133146	Housing or straight side type		
3335133151	Column type (open rod)		
Gap or C-frame:			
3335133156	15 tons and under	8462.91.0060	8462.91.4060
3335133161	16 tons to 35 tons	8462.91.0090	8462.91.8090
3335133166	Over 35 tons		
3335133171	Other hydraulic and pneumatic presses, including horizontal		
All other metal forming type machine tools:			
3335135101	All other metal forming type machine tools valued under \$3,025 each	8463.20.0060	8463.20.0060
		8463.90.0060	8463.90.0060
Machines valued at \$3,025 each or more:			
3335135118	Forging machines, including forging presses and die stamping presses, and die casting machines all types	8462.10.0030	8462.10.0030
3335135121	Riveting machines (except hand held portable types)	8462.10.0035	8462.10.0035
		8462.10.0055	8462.10.0055
		8454.30.0010	8454.30.0010
		8463.20.0080	8463.20.0080
		8463.90.0080	8463.90.0080
3335135126	All other metal forming type machine tools		

1/Source: 2007 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign
Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2007).

Historical Note

The Census Bureau has collected data on metalworking machinery since 1942.

Historical Current Industrial Reports data (called Facts for Industry before 1959) may be obtained from a Federal Depository Library. To locate a Federal Depository Library in your area, please visit <http://www.gpoaccess.gov/libraries.html>.